margin with a narrowly elevated rim; third antennal segment slightly longer than the fourth and equal to from .64 to .80 times the distance between the eyes at the top. Male: subgenital plate moderately broad, tapering to a subacute apex, its margin with weak setae; aedoeagus slightly expanded apically; volsellae with short setae; parameres subacute, with long setae on the inner margin.....tlahuicanus Evans Labrum well exserted beyond the apical margin of the clypeus; pronotum, mesonotum, and scutellum with numerous strong, dark setae. Female: clypeus about 2.2 times as broad as high, its apical margin without an elevated rim; third antennal segment not longer than the fourth, equal to only from .55 to .63 times the distance between the eyes at the top; front femora slightly incrassate. Male: subgenital plate slender, its apical margin fringed with very heavy setae; aedoeagus slender; volsellae with very strong setae; parameres clubshaped, with many strong setae......tarascanus Evans

A New Species of Mallophaga from the Barred Owl

By K. C. Emerson, Stillwater, Oklahoma

The amblyceran genus *Kurodaia* Uchida, 1926, is found in North America on avian hosts of the orders Falconiformes (Hawks) and Strigiformes (Owls). The subgenus *Kurodaia* contains forms found on the Falconiformes. All known North American species of this subgenus possess three combs of short setae on the ventor of the third coxae. The subgenus *Conciella*, Eichler, 1949, contains the forms found on the Strigiformes. All known North American species of this subgenus possess four combs of short setae on the ventor of the third coxae.

Kurodaia (Conciella) magna n. sp.

Male. General shape and chaetotaxy as shown in fig. 2. Male genitalia, less the genital sac, as shown in fig. 3. The genital sac is armed with prominent teeth.

Female. General shape and chaetotaxy as shown in fig. 1.

Type host. Strix varia Barton, Barred Owl.

Type material. Holotype male, allotype female, and eight paratypes collected at Nacogdoches, Texas, on January 9, 1953. Two paratypes collected at Corvallis, Oregon, date unknown. Two paratypes collected at Fairhope, Alabama, on August 31, 1930 by Mrs. W. H. Edwards. Two paratypes collected at Bainbridge, Georgia on June 16, 1956 by S. M. Mc-Keever. Holotype male and allotype female have been deposited in the U. S. National Museum.

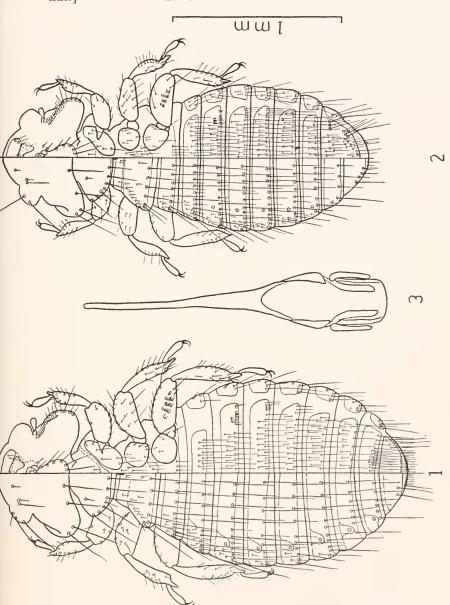
Discussion. The specimens from Texas and Oregon have the expanded preantennal region of the forehead as shown in figs. 1 and 2. This expansion is not as great in the other specimens. This expansion is distinctive and not found in other known species of the genus. However, since it can not be determined how much this expansion has been influenced by mounting, the character has not been used in a key to separate the known North American species of the subgenus. K. magna is closest to K. painci, but is considerably larger than K. painci. The following key indicates other differences.

Key to North American Kurodaia (Conciella) Found on Owls

1. Abdominal tergites I–VI each with one row of setae.....2
Abdominal tergites I–VI each with two rows of setae.....4

3. Posterior margin of eighth abdominal sternite of female (vulva) with approximately 16 medium-length setae. painci Posterior margin of eighth abdominal sternite of female (vulva) with approximately 28 medium-length setae. magna

5. Posterior margin of eighth abdominal sternite of female (vulva) with approximately 16 medium-length setae. Four



All figures refer to Kurodaia (Conciella) magna n. sp. Figures 1 and 2 drawn to the same scale. Fig. 1. Dorsalventral view of female. Fig. 2. Dorsalventral view of male. Fig. 3. Male genitalia.

Type hosts of North American Kurodaia (Conciclla)

K. brachysoma (Kellogg and Chapman, 1902)—Asio flammens (Pontoppidan), Short-eared Owl.

K. magna n. sp.—Strix varia Barton, Barred Owl.

K. menoponoides (Ewing, 1930)—Nyetea scandiaca (Linnaeus), Snowy Owl.

K. painei (McGregor, 1912)—Otus asio (Linnaeus), Screech Owl.

K. pectinata (Osborn, 1902)—Spectyto cunicularia (Molina), Burrowing Owl.

K. subpachygaster (Piaget, 1880)—Tyto alba (Scopoli), Barn Owl.

In this study, types of all species except *K. subpachygaster* were examined and type hosts confirmed with other material from these hosts.

References

Eichler, W. 1949. Boll. Soc. Ent. Ital., 79: 11-13.

EWING, H. E. 1930. Proc. Ent. Soc. Wash., 32: 117-121.

Kellogg, V. L. and B. L. Chapman. 1902. Jour. N. Y. Ent. Soc., 10: 155-169.

McGgegor, E. A. 1912. Ent. News, 23: 305-306.

Osborn, H. 1902. Ohio Nat., 2: 201-204.

Piaget, E. 1880. Les Pediculines. Leiden.

UCHIDA, S. 1926. Jour. College of Agri., Imper. Univ. Tokyo, 9: 1-56.